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NOTICE OF ALLOWANCE AND FEE(S) DUE

85129 7590 12/07/2010

SMIRMAN IP LAW, PLLC P.O. BOX 80364 ROCHESTER, MI 48308 EXAMINER

METZMAIER, DANIEL S

ART UNIT PAPER NUMBER

1762 DATE MAILED: 12/07/2010

	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/578,774 04/09/2007		04/09/2007	Hamdan Halimaton	PIN.00006	6194		
	TITLE OF INVENTION, SILICA AFROCELS						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/07/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

maintenance fee notification	ons.							nould be completed where correspondence address as rate "FEE ADDRESS" for
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SMIRMAN IP I P.O. BOX 80364 ROCHESTER, M			I b	Cer	rtificat	of Mailing or Transis) Transmittal is being	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.	
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR	R	ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/578,774	04/09/2007			Hamdan Halimaton		•	PIN.00006	6194
TITLE OF INVENTION:	SILICA AEROGELS							
APPLN. TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES		\$755	\$300	\$0		\$1055	03/07/2011
EXAMI	NER	1	ART UNIT	CLASS-SUBCLASS				
METZMAIER,			1762	516-100000				
1. Change of corresponder CFR 1.363). Change of correspon Address form PTOVSB/ In Provider Strain Provider Number is required. 3. ASSIGNEE NAME AN PLEASE NOTE: Unler recordation as set forth (A) NAME OF ASSIG	ndence address (or Cha 122) attached. tation (or "Fee Address' tor more recent) attach TD RESIDENCE DATA ss an assignee is identi in 37 CFR 3.11. Comp	nge of C ' Indicat ed. Use	Correspondence tion form of a Customer E PRINTED ON		o 3 registered pater ively, the firm (having as agent) and the nam orneys or agents. If e printed. The property of the printed of the patent. If an assignment.	nt attorn n memb es of u no nan	er a 2	ocument has been filed for
Please check the appropria	ute assignee category or	categor	ies (will not be pr	inted on the patent):	Individual 🗆 C	orporat	ion or other private gro	up entity 🚨 Government
4a. The following fee(s) are submitted: Itsue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies Publication Fee (No small entity discount permitted) Advance Order - # of Copies Publication Fee (No small entity discount permitted) Publication Publication Publication Publication Publication Publication Publication Publication Publication Publicat				4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (cachoise an extra copy of this form).				
5. Change in Entity Statu a. Applicant claims	SMALL ENTITY statu	s. See 3	37 CFR 1.27.	b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeened of the United Sta	iired) w tes Pate	rill not be accepte nt and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party in
Authorized Signature _					Date			
Typed or printed name					Registration N			
This collection of informal an application. Confidenti- submitting the completed this form and/or suggestion Box 1450, Alexandria, Vir Alexandria, Virginia 2231.	tion is required by 37 C ality is governed by 35 application form to the ns for reducing this bur rginia 22313-1450. DC 3-1450.	FR 1.31 U.S.C. USPTO den, she NOT S	11. The informatis 122 and 37 CFR D. Time will vary ould be sent to th SEND FEES OR	on is required to obtain or 1.14. This collection is educated the depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by stimated to take 12 vidual case. Any co er, U.S. Patent and O THIS ADDRES:	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, includin ts on the amount of tir nark Office, U.S. Deps D TO: Commissioner t	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/578,774	04/09/2007		Hamdan Halimaton	PIN.00006	6194	
85129	7590	12/07/2010		EXAMINER		
SMIRMAN IP	LAW,	PLLC	METZMAIER, DANIEL S			
P.O. BOX 80364				ART UNIT	PAPER NUMBER	
ROCHESTER, I	MI 48308	8		1762		
			DATE MAILED: 12/07/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 602 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 602 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/578,774	HALIMATON, HAMDAN	
Examiner	Art Unit	
Examino	7 at onic	
Daniel S. Metzmaier	1762	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
- 1. X This communication is responsive to interview of 11/16/2010 (mailed 11/29/2010) and the response filed 11/23/2010.
- 2. The allowed claim(s) is/are 1-12.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the: a) 🔯 All
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit
- of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date

9. ☐ Other

- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

/Daniel S. Metzmaier/

Primary Examiner, Art Unit 1762

Application/Control Number: 10/578,774

Art Unit: 1762

REASONS FOR ALLOWANCE

Claims 1-12 are allowed

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: the prior art does not disclose or fairly suggest the claimed methods as amended in the response filed 23 November 2010 without engaging in impermissible hindsight to arrive at the combined claimed method elements. More specifically, attention is directed to the arguments, filed 16 August 2010, presented in response to the rejection over Tang et al (evidenced by translation) in view of Kistler and the White et al reference.

The newly cited art is cited to further show the state of art. Lee et al, US 6,670,402, is directed to rapid aerogel production processes. Lee et al (column 7, lines 18-42) discloses the optional addition of solvent to maintain wet gels during loading for vapor phase extraction. Lee et al lacks a teaching of the steps of producing sodium silicate and/or aerogels from rice husk ash and the addition of alcohol functioning as a super-critical fluid.

Frank et al, US 5,133,859, discloses methods and apparatus for extracting samples employing super-critical carbon dioxide as an extraction replacement for several preparative procedures including Soxhlet extraction among others. Frank et al lacks a teaching of the steps of producing sodium silicate and/or aerogels from rice husk ash, a combined use of super-critical carbon dioxide extraction with Soxhlet extraction, and the addition of alcohol functioning as a super-critical fluid.

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Iler, US 2,657,149, discloses esterifying the surfaces of silica substrates. Iler (column 7, lines 50-54; and column 10, lines 42-48) disclose formed aerogels as substrates for esterification and discloses washing or extraction of the esterified materials with solvent, e.g., methyl ethyl ketone, employing Soxhlet extractor. Iler lacks a teaching of preparing the aerogels, the steps of producing sodium silicate and/or aerogels from rice husk ash, an extraction of water with alcohol by Soxhlet extraction, and the addition of alcohol functioning as a super-critical fluid.

The Lee et al, Frank et al and ller references lack a teaching of the claimed methods and the combination of Lee et al and/or Frank et al with Tang et al process would entail impermissible hindsight to arrive at the combined claimed method elements.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel S. Metzmaier whose telephone number is (571) 272-1089. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David W. Wu can be reached on (571) 272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel S. Metzmaier/ Primary Examiner, Art Unit 1762

DSM